



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/716,578  
Source: 1FW/b  
Date Processed by STIC: 12/28/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box-1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):  
U.S. Patent and Trademark Office, 220 20<sup>th</sup> Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04



IFW16

## RAW SEQUENCE LISTING

DATE: 12/28/2004

PATENT APPLICATION: US/10/716,578

TIME: 09:43:42

Input Set : E:\SequenceList\_014811-30.8DV4 (Updated).txt

Output Set: N:\CRF4\12282004\J716578.raw

**Does Not Comply  
Corrected Diskette Needed**

*ppr 5-6*

```

3 <110> APPLICANT: Ekwuribe, Nnochiri N.
4      Radhakrishnan, Balasingam
5      Price, Christopher H.
6      Anderson, Wesley R.
7      Ansari, Aslam M.
9 <120> TITLE OF INVENTION: Methods Of Altering The Binding Affinity Of A Peptide To Its
10      Receptor
12 <130> FILE REFERENCE: 014811-30.8DV4
14 <140> CURRENT APPLICATION NUMBER: 10/716,578
15 <141> CURRENT FILING DATE: 2003-11-19
17 <150> PRIOR APPLICATION NUMBER: 09/134,803
18 <151> PRIOR FILING DATE: 1998-08-14
20 <160> NUMBER OF SEQ ID NOS: 52
22 <170> SOFTWARE: PatentIn version 3.3
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 6
26 <212> TYPE: PRT
27 <213> ORGANISM: artificial sequence
29 <220> FEATURE:
30 <223> OTHER INFORMATION: Synthetic
32 <220> FEATURE:
33 <221> NAME/KEY: MOD_RES
34 <222> LOCATION: (6)..(6)
35 <223> OTHER INFORMATION: Polymer connected to epsilon-amino group
37 <400> SEQUENCE: 1
39 Tyr Gly Gly Phe Met Lys
40 1          5
44 <210> SEQ ID NO: 2
46 <211> LENGTH: 6
48 <212> TYPE: PRT
50 <213> ORGANISM: artificial sequence
52 <220> FEATURE:
53 <223> OTHER INFORMATION: Synthetic
56 <220> FEATURE:
58 <221> NAME/KEY: MOD_RES
60 <222> LOCATION: (1)..(1)
62 <223> OTHER INFORMATION: Polymer connected to alpha-amino group
66 <220> FEATURE:
68 <221> NAME/KEY: MOD_RES
70 <222> LOCATION: (6)..(6)
72 <223> OTHER INFORMATION: Polymer connected to epsilon-amino group
76 <400> SEQUENCE: 2
78 Tyr Gly Gly Phe Met Lys

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DATE: 12/28/2004

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TIME: 09:43:42

Input Set : E:\SequenceList\_014811-30.8DV4(Updated).txt

Output Set: N:\CRF4\12282004\J716578.raw

79 1 5  
81 <210> SEQ ID NO: 3  
83 <211> LENGTH: 6  
85 <212> TYPE: PRT  
87 <213> ORGANISM: artificial sequence  
89 <220> FEATURE:  
90 <223> OTHER INFORMATION: Synthetic  
93 <220> FEATURE:  
95 <221> NAME/KEY: MOD\_RES  
97 <222> LOCATION: (1)..(1)  
99 <223> OTHER INFORMATION: Polymer connected to alpha-amino group  
103 <400> SEQUENCE: 3  
105 Tyr Gly Gly Phe Met Lys  
106 1 5  
108 <210> SEQ ID NO: 4  
110 <211> LENGTH: 6  
112 <212> TYPE: PRT  
114 <213> ORGANISM: artificial sequence  
116 <220> FEATURE:  
117 <223> OTHER INFORMATION: Synthetic  
120 <220> FEATURE:  
122 <221> NAME/KEY: MOD\_RES  
124 <222> LOCATION: (1)..(1)  
126 <223> OTHER INFORMATION: ACETYLTATION  
130 <220> FEATURE:  
132 <221> NAME/KEY: MOD\_RES  
134 <222> LOCATION: (6)..(6)  
136 <223> OTHER INFORMATION: AMIDATION  
140 <400> SEQUENCE: 4  
142 Phe Arg Trp Trp Tyr Lys  
143 1 5  
145 <210> SEQ ID NO: 5  
147 <211> LENGTH: 6  
149 <212> TYPE: PRT  
151 <213> ORGANISM: artificial sequence  
153 <220> FEATURE:  
154 <223> OTHER INFORMATION: Synthetic  
157 <220> FEATURE:  
159 <221> NAME/KEY: MOD\_RES  
161 <222> LOCATION: (1)..(1)  
163 <223> OTHER INFORMATION: ACETYLTATION  
167 <220> FEATURE:  
169 <221> NAME/KEY: MOD\_RES  
171 <222> LOCATION: (6)..(6)  
173 <223> OTHER INFORMATION: AMIDATION  
177 <400> SEQUENCE: 5  
179 Arg Trp Ile Gly Trp Lys  
180 1 5  
182 <210> SEQ ID NO: 6

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Input Set : E:\SequenceList\_014811-30.8DV4 (Updated) .txt

Output Set: N:\CRF4\12282004\J716578.raw

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184 <211> LENGTH: 6
186 <212> TYPE: PRT
188 <213> ORGANISM: artificial sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Synthetic
194 <220> FEATURE:
196 <221> NAME/KEY: MOD_RES
198 <222> LOCATION: (6)..(6)
200 <223> OTHER INFORMATION: AMIDATION
204 <220> FEATURE:
206 <221> NAME/KEY: UNSURE
208 <222> LOCATION: (6)..(6)
210 <223> OTHER INFORMATION: Xaa can be any of the twenty naturally occurring amino acids
214 <400> SEQUENCE: 6
W--> 216 Trp Trp Pro Lys His Xaa
217 1 5
219 <210> SEQ ID NO: 7
221 <211> LENGTH: 4
223 <212> TYPE: PRT
225 <213> ORGANISM: artificial sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Synthetic
231 <220> FEATURE:
233 <221> NAME/KEY: MOD_RES
235 <222> LOCATION: (4)..(4)
237 <223> OTHER INFORMATION: AMIDATION
241 <220> FEATURE:
243 <221> NAME/KEY: UNSURE
245 <222> LOCATION: (4)..(4)
247 <223> OTHER INFORMATION: Xaa is either Lys or Arg
251 <400> SEQUENCE: 7
W--> 253 Trp Trp Pro Xaa
254 1
256 <210> SEQ ID NO: 8
258 <211> LENGTH: 6
260 <212> TYPE: PRT
262 <213> ORGANISM: artificial sequence
264 <220> FEATURE:
265 <223> OTHER INFORMATION: Synthetic
268 <220> FEATURE:
270 <221> NAME/KEY: MOD_RES
272 <222> LOCATION: (6)..(6)
274 <223> OTHER INFORMATION: AMIDATION
278 <220> FEATURE:
280 <221> NAME/KEY: UNSURE
282 <222> LOCATION: (6)..(6)
284 <223> OTHER INFORMATION: Xaa can be any one of the naturally occurring amino acids
288 <400> SEQUENCE: 8
W--> 290 Tyr Pro Phe Gly Phe Xaa

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## RAW SEQUENCE LISTING

DATE: 12/28/2004

PATENT APPLICATION: US/10/716,578

TIME: 09:43:42

Input Set : E:\SequenceList\_014811-30.8DV4 (Updated).txt

Output Set: N:\CRF4\12282004\J716578.raw

```

291 1          5
293 <210> SEQ ID NO: 9
295 <211> LENGTH: 7
297 <212> TYPE: PRT
299 <213> ORGANISM: artificial sequence
301 <220> FEATURE:
302 <223> OTHER INFORMATION: Synthetic
305 <220> FEATURE:
307 <221> NAME/KEY: MOD_RES
309 <222> LOCATION: (1)..(5)
311 <223> OTHER INFORMATION: Amino acids are in the D-form
315 <220> FEATURE:
317 <221> NAME/KEY: MOD_RES
319 <222> LOCATION: (6)..(6)
321 <223> OTHER INFORMATION: n is 0 or 1
325 <220> FEATURE:
327 <221> NAME/KEY: MOD_RES
329 <222> LOCATION: (7)..(7)
331 <223> OTHER INFORMATION: Xaa is Gly or the D-form of a naturally occurring amino acid
335 <220> FEATURE:
337 <221> NAME/KEY: MOD_RES
339 <222> LOCATION: (7)..(7)
341 <223> OTHER INFORMATION: AMIDATION
345 <400> SEQUENCE: 9

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W--&gt; 347 Ile Met Ser Trp Trp Gly Xaa

```

348 1          5
350 <210> SEQ ID NO: 10
352 <211> LENGTH: 6
354 <212> TYPE: PRT
356 <213> ORGANISM: artificial sequence
358 <220> FEATURE:
359 <223> OTHER INFORMATION: Synthetic
362 <220> FEATURE:
364 <221> NAME/KEY: MOD_RES
366 <222> LOCATION: (1)..(4)
368 <223> OTHER INFORMATION: Amino acids are in the D-form
372 <220> FEATURE:
374 <221> NAME/KEY: MOD_RES
376 <222> LOCATION: (6)..(6)
378 <223> OTHER INFORMATION: Xaa is Gly or the D-form of a naturally-occurring amino acid
382 <220> FEATURE:
384 <221> NAME/KEY: MOD_RES
386 <222> LOCATION: (6)..(6)
388 <223> OTHER INFORMATION: AMIDATION
392 <400> SEQUENCE: 10

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W--&gt; 394 Ile Met Thr Trp Gly Xaa

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395 1          5
397 <210> SEQ ID NO: 11
399 <211> LENGTH: 4

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## RAW SEQUENCE LISTING

DATE: 12/28/2004

PATENT APPLICATION: US/10/716,578

TIME: 09:43:42

Input Set : E:\SequenceList\_014811-30.8DV4(Updated).txt

Output Set: N:\CRF4\12282004\J716578.raw

401 <212> TYPE: PRT  
 403 <213> ORGANISM: artificial sequence  
 405 <220> FEATURE:  
 406 <223> OTHER INFORMATION: Synthetic  
 409 <220> FEATURE:  
 411 <221> NAME/KEY: MOD\_RES  
 413 <222> LOCATION: (2)..(2)  
 415 <223> OTHER INFORMATION: Xaa is A1, wherein A1 is the D-form of Nve or Nle  
 419 <220> FEATURE:  
 421 <221> NAME/KEY: MOD\_RES  
 423 <222> LOCATION: (3)..(3)  
 425 <223> OTHER INFORMATION: Xaa is B2, wherein B2 is Gly, Phe, or Trp  
 429 <220> FEATURE:  
 431 <221> NAME/KEY: MOD\_RES  
 433 <222> LOCATION: (4)..(4)  
 435 <223> OTHER INFORMATION: Xaa is C3, wherein C3 is Trp or (Nap) FYI: Xaa can only  
 439 <220> FEATURE: represent a  
 441 <221> NAME/KEY: MOD\_RES single amino  
 443 <222> LOCATION: (4)..(4) acid  
 445 <223> OTHER INFORMATION: AMIDATION  
 449 <400> SEQUENCE: 11

W--&gt; 451 Tyr Xaa Xaa Xaa

452 1  
 454 <210> SEQ ID NO: 12  
 456 <211> LENGTH: 3  
 458 <212> TYPE: PRT  
 460 <213> ORGANISM: artificial sequence  
 462 <220> FEATURE:  
 463 <223> OTHER INFORMATION: Synthetic  
 466 <220> FEATURE:  
 468 <221> NAME/KEY: MOD\_RES  
 470 <222> LOCATION: (1)..(1)  
 472 <223> OTHER INFORMATION: Tyr has at its N-terminus an Me-x-H-y-N group, wherein x is  
 0, 1,

473 or 2; and y is 0, 1, or 2, with the proviso that x and y is neve  
 474 r greater than ? greater than what?

478 <220> FEATURE:  
 480 <221> NAME/KEY: MOD\_RES  
 482 <222> LOCATION: (1)..(2)  
 484 <223> OTHER INFORMATION: The amine between the first Tyr and the second Tyr is

methylated

489 <220> FEATURE:  
 491 <221> NAME/KEY: MOD\_RES  
 493 <222> LOCATION: (3)..(3)  
 495 <223> OTHER INFORMATION: Xaa is Xaa-z, wherein Xaa is Phe, (D)Phe, or (NHBzl) FYI: Xaa can only  
 represent a single  
 amino acid  
 and

wherein z

496 is 0 or ? or what?

500 <220> FEATURE:  
 502 <221> NAME/KEY: MOD\_RES  
 504 <222> LOCATION: (3)..(3)  
 506 <223> OTHER INFORMATION: AMIDATION  
 510 <400> SEQUENCE: 12

Please ensure subsequent  
 sequences don't show  
 these types of errors.

RAW SEQUENCE LISTING ERROR SUMMARY  
 PATENT APPLICATION: US/10/716,578

DATE: 12/28/2004  
 TIME: 09:43:43

Input Set : E:\SequenceList\_014811-30.8DV4(Updated).txt  
 Output Set: N:\CRF4\12282004\J716578.raw

FYI

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; Xaa Pos. 6  
 Seq#:7; Xaa Pos. 4  
 Seq#:8; Xaa Pos. 6  
 Seq#:9; Xaa Pos. 7  
 Seq#:10; Xaa Pos. 6  
 Seq#:11; Xaa Pos. 2, 3, 4  
 Seq#:12; Xaa Pos. 3  
 Seq#:13; Xaa Pos. 4, 6  
 Seq#:14; Xaa Pos. 2  
 Seq#:15; Xaa Pos. 2  
 Seq#:16; Xaa Pos. 2  
 Seq#:17; Xaa Pos. 2  
 Seq#:18; Xaa Pos. 2  
 Seq#:19; Xaa Pos. 2  
 Seq#:20; Xaa Pos. 2  
 Seq#:21; Xaa Pos. 2  
 Seq#:22; Xaa Pos. 2  
 Seq#:23; Xaa Pos. 2  
 Seq#:24; Xaa Pos. 2  
 Seq#:25; Xaa Pos. 2  
 Seq#:26; Xaa Pos. 2  
 Seq#:27; Xaa Pos. 2  
 Seq#:28; Xaa Pos. 2  
 Seq#:29; Xaa Pos. 2  
 Seq#:30; Xaa Pos. 2  
 Seq#:31; Xaa Pos. 2  
 Seq#:32; Xaa Pos. 2  
 Seq#:33; Xaa Pos. 2  
 Seq#:34; Xaa Pos. 2  
 Seq#:35; Xaa Pos. 2, 3  
 Seq#:36; Xaa Pos. 2  
 Seq#:37; Xaa Pos. 2  
 Seq#:38; Xaa Pos. 2  
 Seq#:39; Xaa Pos. 2  
 Seq#:40; Xaa Pos. 2  
 Seq#:41; Xaa Pos. 2  
 Seq#:42; Xaa Pos. 2  
 Seq#:43; Xaa Pos. 2  
 Seq#:44; Xaa Pos. 2  
 Seq#:45; Xaa Pos. 2  
 Seq#:46; Xaa Pos. 2  
 Seq#:47; Xaa Pos. 2

## VERIFICATION SUMMARY

DATE: 12/28/2004

PATENT APPLICATION: US/10/716,578

TIME: 09:43:43

Input Set : E:\SequenceList\_014811-30.8DV4(Updated).txt

Output Set: N:\CRF4\12282004\J716578.raw

L:216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:347 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:512 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:570 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:597 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
L:634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:671 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0  
L:708 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0  
L:745 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0  
L:782 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0  
L:819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0  
L:866 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0  
L:903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0  
L:940 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0  
L:977 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0  
L:1025 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0  
L:1083 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0  
L:1121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0  
L:1159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0  
L:1207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0  
L:1244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0  
L:1271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0  
L:1308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0  
L:1335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0  
L:1372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0  
L:1409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0  
L:1446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0  
L:1483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0  
L:1520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0  
L:1557 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0  
L:1594 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0  
L:1631 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0  
L:1678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0  
L:1725 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0  
L:1752 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0  
L:1789 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0  
L:1827 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0  
L:1865 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0